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Work Order ID 113551

112551

February-21-14	1:24:05 Pl	M		11.7	2 32 3 1				-	*	B
Item ID: Revision ID:	D3391-023	3		Accept	*N900	040	100)* s	etup Star	*N.S	\ 1*
Item Name:	Mid Tube A	ssembly	•	·	11				Stop	*NS	\$9*
Start Date:	2/21/14	Start Qty: 4.00	*4*		Cust Item	ID:	•	<i>.</i> *			
Required Date:	: 3/07/14	Req'd Qty: 4.00	*4*		Customer:						4.1
Reference:		·					_	1 0			•
Approvals:	Process P	lan: ML5	_ Date: 14-02	<u>-2</u> / Tooling:	D	ate:		. N. A	tun Star	~1 <i>\</i> 1+	२1 *
•	QC:		Date:	SPC (Y/N):	D	ate:			Sto	° *NF	₹2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty		Insp. Stamp
Draw Nbr	Re	evision Nbr								-	
D3391	I					·	_		•.	/i	
100 +4 00+		Skidtubes		0.00				^	14/		
100 Skidtubes		Memo		0.00	N .		***		14/	sala	6
Skidtubes		1-Cut tube	to finish length as per I	Dwg D3391				•		J	
*			t holes using DT8796 (on one side only as per	Do not drill "B" holes) and dril Dwg D3391	l only 1 fwd		•			·	
		3-Open sad "J"	dles and GHW holes to	Ø0.375" exept for fwd saddle	hole of detail		- Fr. 1			•	
		4-Remove	.030" from Fwd indexir	ng Ridge as per Dwg D3391)				
		5-Remove	indexing ridge on Fwd	& Aft end of skidtube as per D	wg D3391						
	-4 	6-Deburr	• •				٠		•		
		paint marke	er,	olate Jig DT8217 Identify Ø0.2 9-20 FROM FWD END OF JIG							
:			arplate holes of D3391- as per Dwg D3391	023 assembly detail section G-	G to Ø0.250"						* *
•		(20 holes) a	as per Dwg D3391	023 assembly detail section H-D WEARPLATE HOLES***	H to Ø0.297"						•



Page 2

Insp.

Stamp

February-21-14 1:24:05 PM Accept Item ID: D3391-023 *N900040100* Setup Start Revision ID: Mid Tube Assembly Item Name: Start Date: 2/21/14 Start Qty: 4.00 **Cust Item ID:** Required Date: 3/07/14 Rea'd Otv: 4.00 **Customer:** Reference: Run Process Plan: Date: Tooling: Approvals: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool # Plan Accept Reject ·Set Up/ Tool ID Reject Work Center ID Description **Run Hours** Code Number 10-Open .375" holes to .438" ***do not open fwd saddle holes*** N-Locate D3391-021 in D3391-023 at 9.00" (see view z-z) 12- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill..188" dia hole, using t-pins and clicos to ensure perfect allingment open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia in D3391-021 D3391-021 BAKCH: 13- Using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021. 14- Locating from two fwo wearplate holes in D3391-023 drill remaining 6 wearpite holes in D3391-02 Jusing DT8937 15- Open 10 wearplate holes in \$2391-021 to 0.297" dia. 16- insert D3391-021 into 03391-23 17- insert T-pins into first and third fwd saddle holes

19-ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499".

20-Deburr and blow out all chips from inside tube, scribe batch # in D3391-023 at aft end.

18- ON ERST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500"

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Work Order ID 113551

113551

Page 3

February-21-14 1:24:05 PM Item ID: Accept D3391-023 *N900040100* Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly **Start Oty: 4.00** *4* **Start Date:** 2/21/14 **Cust Item ID:** Required Date: 3/07/14 Rea'd Otv: 4.00 */* **Customer:** Reference: Run Start Process Plan: Date: Tooling: **Approvals:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description Code Oty Number Stamp **Run Hours** Oty 110 OC5- Inspect part completeness to step on W/O *110* OC. Memo Quality Control Chemical Conversion Coat per OSI005 4.1 0.00 120 *120* HandFinish 0.00 Memo Hand Finishing 130 QC7-Inspect Chemical Conversion Coat 0.00 OC 0.00 Memo Quality Control

113551

Page 4

February-21-14 1:24:05 PM Item ID: D3391-023 Accept *N900040100* Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly **Start Otv:** 4.00 *4* **Start Date:** 2/21/14 **Cust Item ID:** Required Date: 3/07/14 **Rea'd Oty:** 4.00 *4* **Customer:** Reference: Run Start Tooling: Approvals: Process Plan: Date: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Stamp **Work Center ID** Description Code Oty Number **Run Hours Oty** 140 0.00 Skidtubes *140* Skidtubes 0.00 Memo Skidtubes 1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg 3- Prepare tube for welding 4-Bond web in place as per Dwg D3391 & QSI 015. Adhere for 12 hours) A/R Sikaflex exp: 14-8-16 batch#: 1127918 NOTE: ENSURE WEB IS INSERTED IN AFT END OF TUBE

150

QC5- Inspect part completeness to step on W/O

0.00

QC

Memo

0.00

Quality Control



Work Order I	D 113551
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113551

Page 5

February-21-14 1:24:05 PM Item ID: D3391-023 Accept *N900040100* Setup Start **Revision ID: Item Name:** Mid Tube Assembly **Start Date:** 2/21/14 Start Oty: 4.00 *4* **Cust Item ID:** Required Date: 3/07/14 **Reg'd Oty:** 4.00 *4* **Customer:** Reference: Start Run Process Plan: **Tooling: Approvals:** Date: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. **Work Center ID** Number Stamp Description **Run Hours** Code Qty Qty 160 0.00 Skidtubes *160* Skidtubes 1-Weld crossbolt spacer as per dwg D3391 & QSI 004 A/R m 126325 BE14-0227 Skidtubes 2-grind weld flush De 14/02/27 170 QC10- Inspect visual per QSI004- ground welds 0.00 *170* (J 14-02-27 OC 0.00 Memo 9 Quality Control 9-89 180 QC5- Inspect part completeness to step on W/O 0.00 DAS *120* D 14-02-27 OC 0.00 Memo Quality Control

SHIP PLONE MARCH 3

Work Order ID 113551

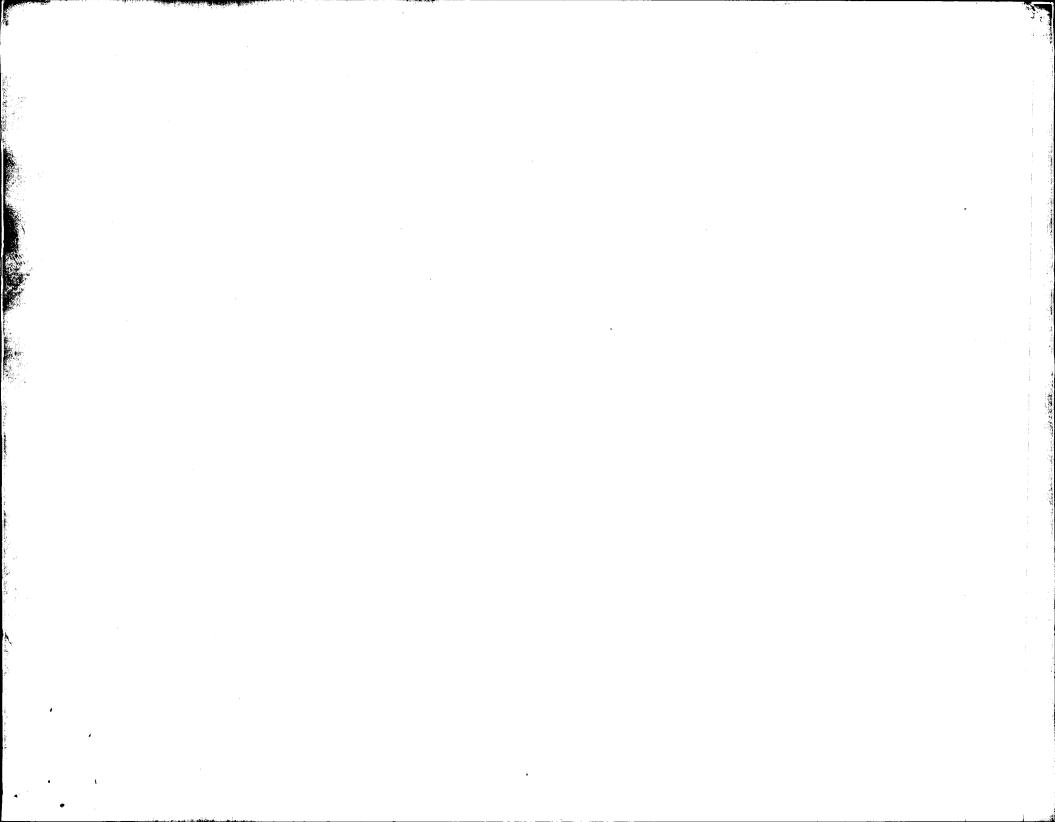
February-21-14 1:24:05 PM

Quality Control

113551

Page 6

D3391-023 Item ID: Accept *N900040100* Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly **Start Date:** 2/21/14 Start Qty: 4.00 *4* **Cust Item ID:** Required Date: 3/07/14 Req'd Qty: 4.00 *4* **Customer:** Reference: Run Start Process Plan: Date: Tooling: Approvals: Date: Stop Date: SPC (Y/N): QC: Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. **Work Center ID Description** Qty Qty Stamp **Run Hours** Code Number 185 Pressure Wash per QSI005 4.3 0.00 *125* HandFinish 0.00 Memo AND REALODINE AS PER PAR09-043 Hand Finishing 190 White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum 0.00 4 \$ 14-3-3. *190* Powdercoat 0.00 Powder Coating 200 QC3- Inspect Part Finish 0.00 0.00 Memo



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Work Order ID 113551 February-21-14 1:24:05 PM				*113				Page			
Item ID: Revision ID: Item Name:	D3391-023			Accept	*N900	040	100)* s	Setup Sta		S1* S2*
Start Date: Required Date Reference:	2/21/14 e: 3/07/14	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item I Customer:	D:					
Approvals:	Process Plan:QC:		Date:	Tooling:	Date:			R	Run Sta	^!\ <u>\</u>	R1*
			Date:	SPC (Y/N):					Sto	ິ *NR2*	
Sequence ID/ Work Center 230	ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
230 HandFinish Hand Finishing		HandFinishing Memo	03501.1 spacers being D	0.00 0.500° signature of the control) AW						
Tidad Timisimig			erts as per Dwg	110 starting from 0.500 si							
240 *240*		QC5- Inspect part compl	eteness to step on W/O	0.00 27 9189				4			
QC		Memo		0.00 171 21)						

Quality Control

Identify as per dwg & Stock Location:__

0.00

250
Packaging

250

Memo

0.00

4. 14-3-3

Packaging

DAS 6 9-89

Page 7

Work Order ID 113551 February-21-14 1:24:05 PM			*113551*								Page 8
Item ID: Revision ID: Item Name:	D3391-023			Accept	*N900	040	100	k s	etup Start Stop	171	S1* S2*
Start Date: Required Date: Reference:	2/21/14	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item I	D:				^IV.	ニン "
Approvals:	pprovals: Process Plan: QC:		Date:	Tooling: SPC (Y/N):		nte:		R	un Start Stop	^IVI	R1* R2*
Sequence ID/ Work Center II 260)	Operation Description OC21- Final Inspection -	. Work Order Release	Set Up/ Run Hours	Tool ID	Tool#		Accept Qty		Reject Number	Insp. Stamp

0.00

Memo

260

Quality Control

MUJ (4-03-03)

Picklist Print

February-21-14 1:24:09 PM

Work Order ID: 113551

113551

Parent Item:

D3391-023

D3391-023

Parent Item Name:

Mid Tube Assembly

Start Date: 2/21/14

Required Date: 3/07/14

Start Otv: 4.00

Required Qty: 4.00

Comments:

IPP A05.10.20New Issue KJ/EC IPP B06.02.10ECN773 dwg rev.D EC

 IPP C
 07.03.20
 rev F dwg
 EC

 IPP D
 07.03.28
 re-format
 EC

 IPP E
 07.10.31
 ecn 1053P
 EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty		Date Status Issued
D2500-1-100		Manufactured	No			100	Each	89.0000	1	4	/ /	,
D2500-1-	-100								**	De 1º	1/02/3	15
				Location		Loc	<u>Oty</u>	Loc Code				
				HALL			89		_		-	
7				-	82373) 86065		28 61		_	4	_	
D3389-1		Manufactured	No			140	Each	3.0000	1	4	/	/
*D3389-17	*								**	DC	14/02	2/26
				Location		Loc	<u>Oty</u>	Loc Code				,
				LG002	108410		3 3		-> <u>3</u>		-	
D3681-1		Manufactured	No	į	1/3057=	160	Each	196.0000		20		
*D3681-17	k								**		B	614-02-2
				Lagation		T	04	Y C-4-				

 Location
 Loc Oty
 Loc Code

 LG001
 196
 360

 109109
 136
 360

February-21-14 1:24:09 PM

Work Order ID: 113551

D3391-023

Parent Item Name: Mid Tube Assembly

Parent Item:

D3391-023

113551

Start Date: 2/21/14

Required Date: 3/07/14

Start Qty: 4.00

Required Qty: 4.00

D3591-1

Manufactured

Each

92.0000

Loc Code

8

**

**

ALS4-1032-130

AELS4-1032-130 Purchased

No

Location Loc Qty FG 10 92873 10 FP001 82 100699 5 107918 40 109107 37 230

Each

1,433.000

80

(xu) 11/03/03

ALS4-1032-130

Location	Loc Oty
ST279	1376
<u>M128179</u>	292
M128211	1084
st510	57
M126109	57

Loc Code

x & O

PARTNC:

D4095.045 (wearplate Assembly) (enter

361 48+ AN3C-4A (bolts)

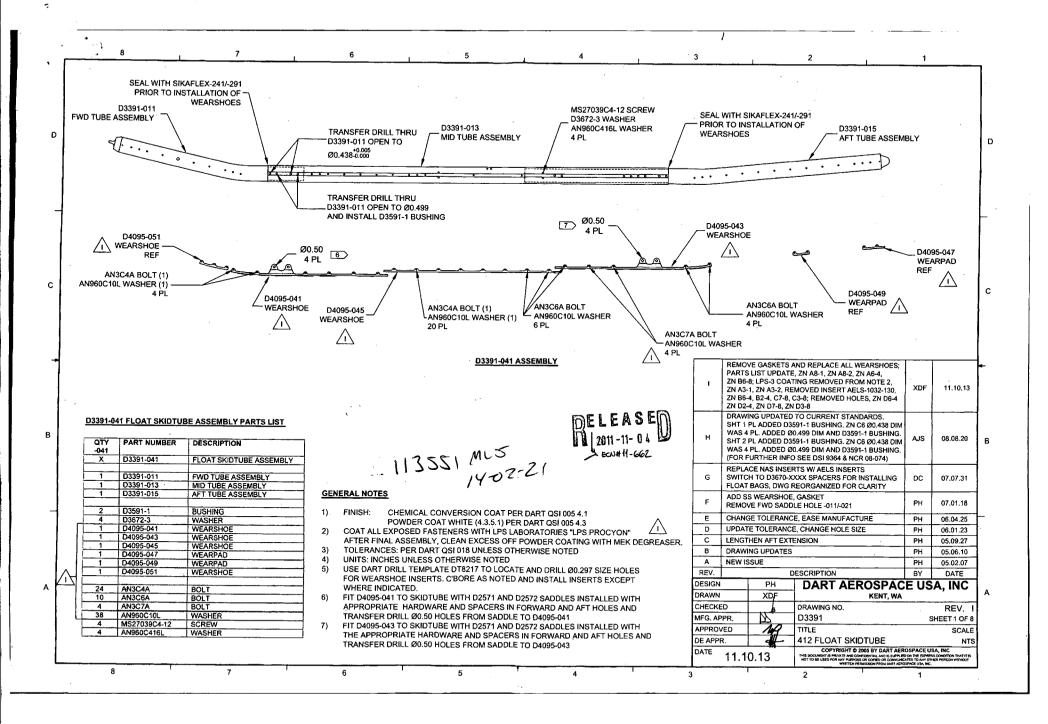
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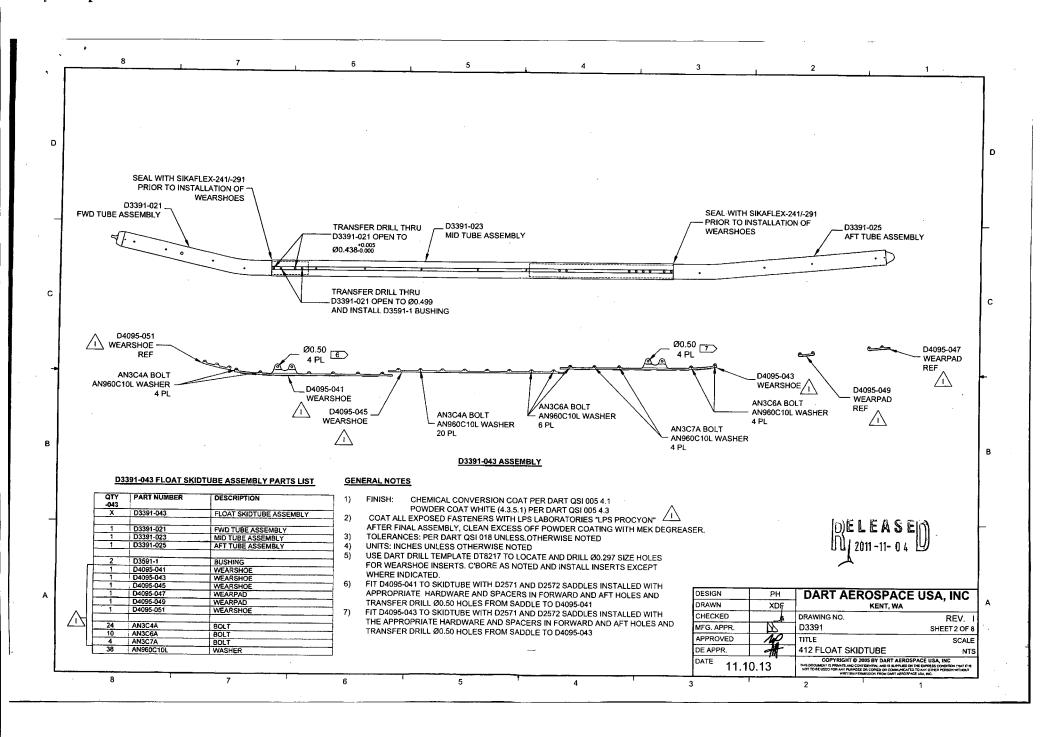
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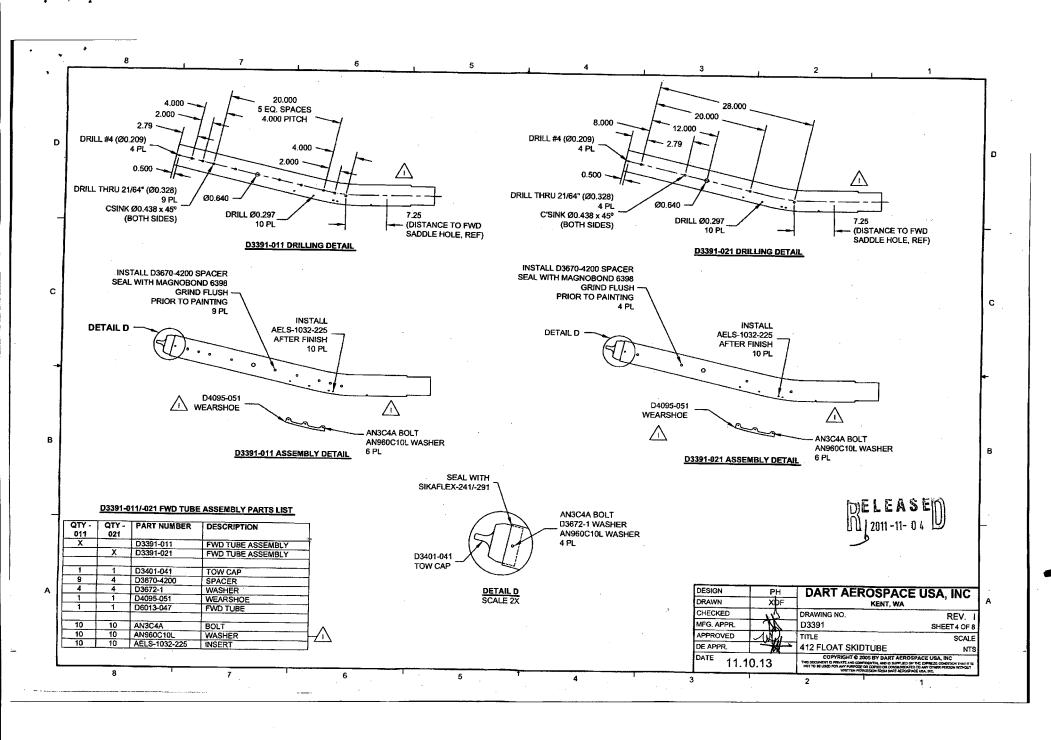
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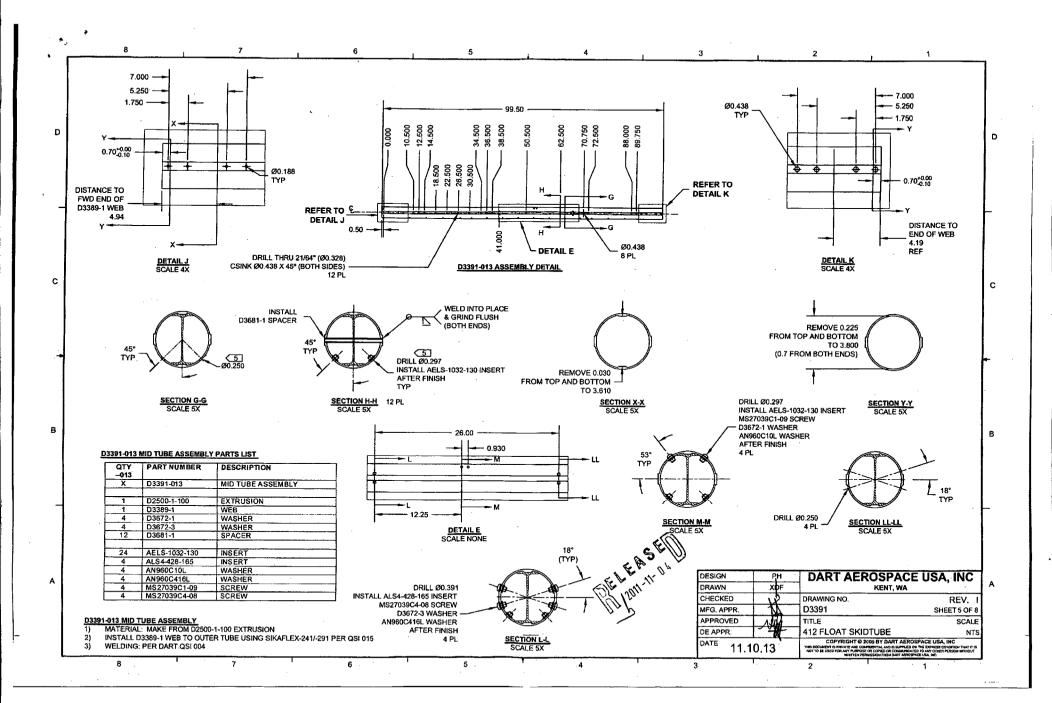
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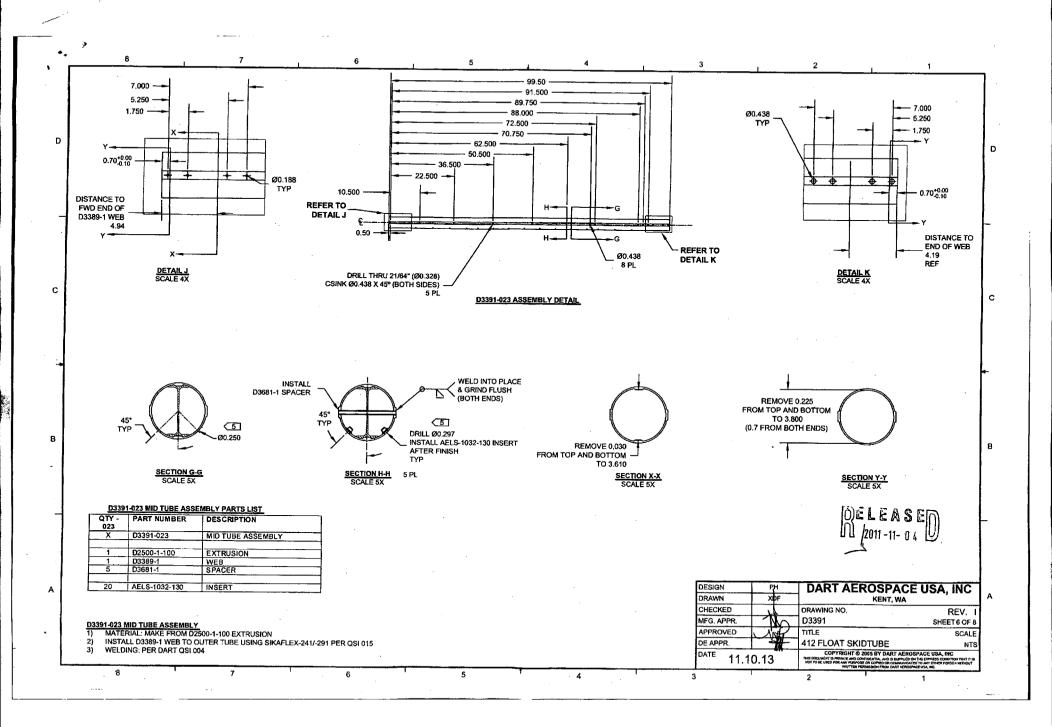
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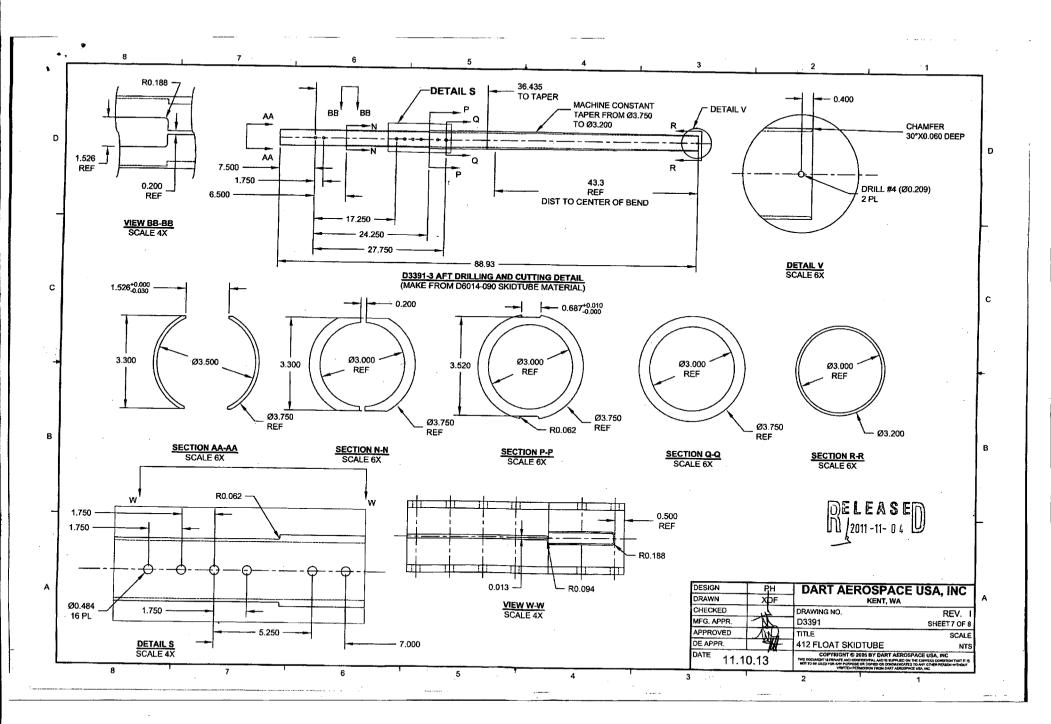


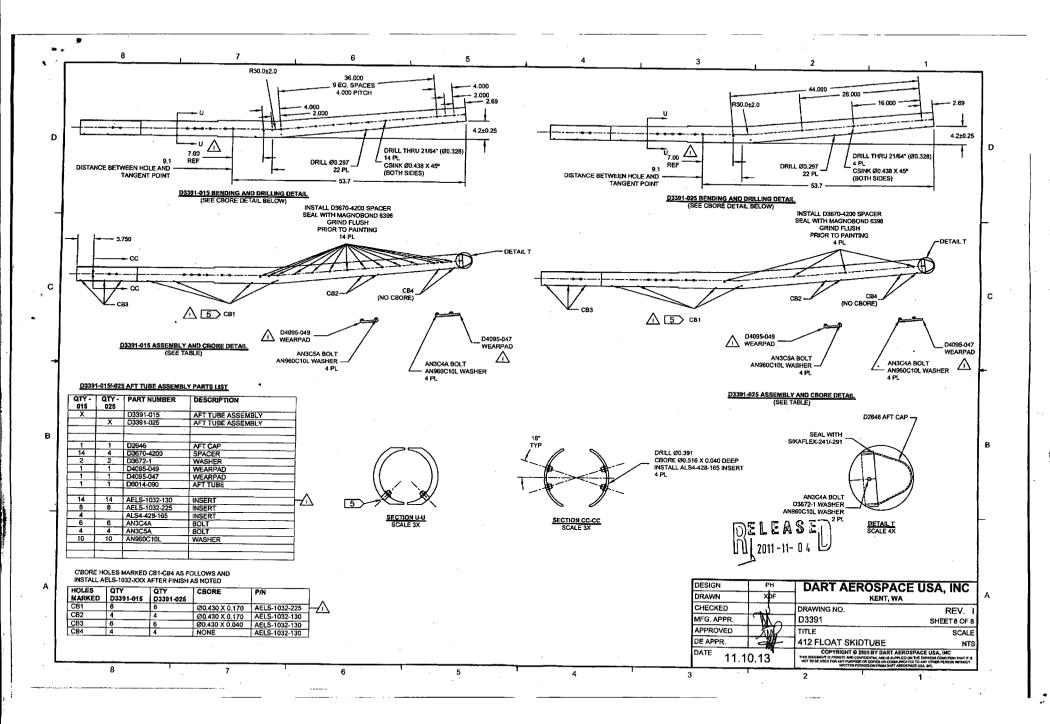














NO. 334

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclay Elliot	
Job#:	
Part#: 13391-023	
Description: Skuffelde	
Welding Process: Tig[Mig[]	
Base materiel: Hun	
Current: AC DC	

TEST REQUIREMENTS AND RESULTS

Visual:	pass[/	fail[]
Incomplete Penetration:	pass[//	fail[]
Incomplete Fusion:	pass[/	fail[]
Cracks:	pass[/	fail[]
Overlap (cold lap)	pass[/]	fail[]
Undercut:	pass[/]	fail[]
Pin holes:	pass[/]	fail[]
Porosity (surface):	pass[//]	fail[]
Coloration:	pass[/	fail[]
Burn through:	pass[/]	fail[]

Qualifier Date of Test Coupon 13.10.25

Welder Date of Test Coupon 13-10-25

The above named individual is qualified in accordance with AWS D17.1.2001 to weld